

- 1 What is claimed is:
- 2 1. A method for validating a user's authorization to run a tool in a service control manager (SCM)
- 3 module by a security manager, comprising:
- 4 obtaining a list of target nodes and a tool definition from a runnable tool;
- 5 obtaining the tool's roles from the tool definition;
- 6 checking if any of the tool's roles are enabled;
- 7 checking if the user is authorized on the nodes; and
- 8 checking if the user is authorized for at least one of the tool's enabled roles on the nodes.
- 9 2. The method of claim 1, wherein the obtaining the tool's roles step includes obtaining the tool's
- 10 roles, wherein the tool may be assigned one or more roles.
- 11 3. The method of claim 1, further comprising validating the roles.
- 12 4. The method of claim 1, further comprising obtaining the user's authorized roles for each node
- 13 in the list of target nodes from a hash table.
- 14 5. The method of claim 1, further comprising reporting whether the tool is runnable by the user.
- 15 6. The method of claim 5, wherein the reporting step includes reporting the tool as not runnable
- 16 by the user when all the roles are disabled.
- 17 7. The method of claim 5, wherein the reporting step includes reporting the tool as not runnable
- 18 by the user when the user is not authorized on each of the nodes.
- 19 8. The method of claim 5, wherein the reporting step includes reporting the tool as not runnable
- 20 by the user when the user is not authorized for any of the tool's enabled roles on all of the nodes.
- 21 9. A service control manager (SCM) module for validating a user's authorization to run a tool on
- 22 one or more target nodes, comprising:
- 23 target nodes that are managed servers;
- 24 tools that specify commands or options on the target nodes;

